

1 **AN AVERAGE CURRENT ESTIMATION SCHEME**
2 **FOR SWITCHING MODE POWER SUPPLIES**

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5 **ABSTRACT**

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7 Compared with the prior art, the invention offers several extra benefits in addition to
8 providing a dc current signal from a sensed peak current signal. First, the control switch
9 is referenced to the ground, and therefore floating drive for the series switch in the prior
10 art is not necessary. Second, the peak current signal is always available regardless of the
11 status of the control switch. By separating the peak and average current signals, the
12 converter can be better controlled and both peak current mode control and current sharing
13 control can be optimized. Finally, referencing the peak current and average current
14 signals to the different grounds provides freedom to implement different control schemes.